

## **Meteorlogix GIS Products**



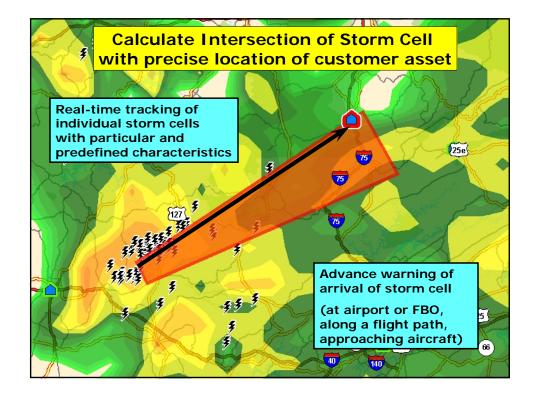
# Components of GeoSpatial Weather Solutions

- 1) GIS Weather Data Services
  - Current, forecast, and recent history; Domestic and Global data
  - Conversion of proprietary weather data into GIS formats
  - Satellite and Internet delivery; Hosted or on-site conversion

### 2) Geospatial Weather Display-Analysis Technology

- MxAnalyst ESRI GIS mapping visualization and analysis toolkit
- 3) Weather-enabled Decision Support Tools
  - So What?
  - SiteWatch weather monitoring and alerting system components
  - Dynamic location-based alerting and message distribution

when weather means business™



## **GIS Weather Decision Support**



45°N 93°W

#### **Union Pacific Railroad**

- Monitors weather information across entire national rail system
- Automatically determines if specific weather conditions meet or exceed railroad defined thresholds
  - Customizable parameters set by client
  - Based on Railroad rules of operation
- Analyzes weather conditions in conjunction with precise location of railroad assets
- Sends alert notification to the responsible Dispatcher, Service Interruption Center and Crews
- In operation for 4+ years
- Has averted several moving derailments





#### **Union Pacific Weather Alert Notification**

**Tornado** 

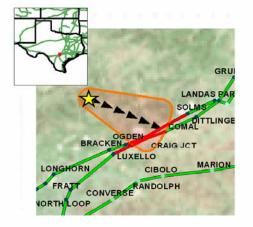


#### **Observed Weather Event**

Storm with Tornadic signature approaching Tracks at 52 MPH.

Issue Time: 05/23/01 11:48:46 CDT Expire Time: 05/23/01 11:57:46 CDT

Track Segment(s): OGDEN to COMAL LUXELLO to SOLMS



#### Comment:

A NEXRAD Storm Cell identified with a Tornadic signature is approaching

Take Action Immediately

Custom alert with intelligent message routing

